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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/528,730	03/22/2005	Oliver Brasse	2002P03695WOUS	8582		
Siemens Corporation Intellectual Property Department			EXAMINER			
			ELAHEE, MD S			
170 Wood Avenue South Iselin, NJ 08830			ART UNIT	PAPER NUMBER		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
Office Action Comments	10/528,730	BRASSE ET AL.		
Office Action Summary	Examiner	Art Unit		
	MD S. ELAHEE	2614		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence ad	ldress	
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE				
Status				
Responsive to communication(s) filed on 22 Ma This action is FINAL . 2b) ☑ This Since this application is in condition for allowant closed in accordance with the practice under E.	action is non-final. ace except for formal matters, pro		e merits is	
Disposition of Claims				
4) ☐ Claim(s) 12-31 is/are pending in the application 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 12-31 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.			
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the objection to the object of the control of th	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CI	, ,	
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 03/22/2005,04/29/2005.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	te		

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DETAILED ACTION

Information Disclosure Statement

1. The information disclosure statements (IDS's) submitted on March 22, 2005 and April 29, 2005 were received. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statements are being considered by the examiner.

Claim Objections

2. Claim 27 is objected to because of the following informalities: regarding claim 27, the phrase "MOH (=Music on Hold)" in line 2 should apparently be "MOH (Music on Hold)". Appropriate correction is required.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 4. Claims 12, 13, 24 and 27-31 are rejected under 35 U.S.C. 102(e) as being anticipated by McCormack et al. (U.S. Pub. No. 2002/0136384).

Regarding claims 12, 29 and 30, with respect to Figures 1-5, McCormack teaches a method for handling digital sound sequences in a telecommunications system having a CPU, a working memory for the CPU, and a switching network, the method comprising:

establishing connections to a telecommunication terminal via the switching network by the telecommunications system (fig.2,5);

McCormack further teaches outputting sound sequences via the switching network to the telecommunications terminal by the telecommunications system (page 3, paragraphs 0059, 0061-0062, page 4, paragraphs 0069-0071, 0073, 0076, 0078); and

McCormack further teaches using at least a part of the working memory to store the digital sound sequences (page 4, paragraph 0076).

Regarding claim 13, McCormack, as applied to claim 12, teaches that the CPU performs a data transfer of the digitally stored sound sequences between the working memory and switching network (page 1, paragraph 0002, page 3, paragraphs 0059, 0061, page 4, paragraphs 0069-0071, 0073, 0076, 0078).

Regarding claim 24, McCormack, as applied to claim 12, teaches that digitizing sound sequences and storing the digitized sound sequences in the working memory by the telecommunications system (page 3, paragraph 0059, page 4, paragraphs 0069-0071, 0076, 0078).

Regarding claim 27, McCormack, as applied to claim 12, teaches that the digital sound sequences are MOH (=Music on Hold), voice sequences, or signal tones (page 3, paragraph 0059, page 4, paragraphs 0069-0071, 0076, 0078).

Regarding claim 28, McCormack, as applied to claim 12, teaches program code and/or data of telecommunications subscribers being stored in the working memory (fig.7,8; page 3, paragraph 0059, page 4, paragraphs 0069-0071, 0076, 0078).

Regarding claim 31, McCormack, as applied to claim 30, teaches that the mechanisms for performing the method as claimed in claim 12 are program mechanisms and/or program modules (fig.7,8).

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.

3. Resolving the level of ordinary skill in the pertinent art.

4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

7. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

8. Claims 14-23, 25 and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over McCormack et al. in view of Moran (U.S. Patent No. 4,370,743).

Regarding claims 14 and 15, McCormack, as applied to claims 12 and 13, teaches that data is transferred packet by packet (page 3, paragraphs 0059, 0061-0062, page 4, paragraphs 0069-0071, 0073, 0076, 0078).

However, McCormack does not specifically teach a time slot assigner (TSA) is used between the working memory and the switching to assign the digital sound sequences to programmed timeslots. Moran teaches a time slot assigner (TSA) is used between the working memory and the switching to assign the digital sound sequences to programmed timeslots (col.6, lines 1-22). Thus, it would have been obvious to one of ordinary skill in the art at the time the

invention was made to modify McCormack to incorporate the feature of a time slot assigner

(TSA) used between the working memory and the switching to assign the digital sound

sequences to programmed timeslots in McCormack's invention as taught by Moran. The

motivation for the modification is to do so in order to provide sound within a particular time.

Regarding claims 16 and 17, McCormack, as applied to claims 14 and 15, teaches

supporting a packet-by-packet data transfer of the digital sound sequences (page 3, paragraphs

0059, 0061-0062, page 4, paragraphs 0069-0071, 0073, 0076, 0078).

However, McCormack does not specifically teach that a FIFO shift register is used in the

time slot assigner (TSA). Moran teaches that a FIFO shift register is used in the time slot

assigner (TSA) (ccol.5, lines 31-51, col.6, lines 1-22, col.8, line 61-col.9, line 18). Thus, it would

have been obvious to one of ordinary skill in the art at the time the invention was made to

modify McCormack to incorporate the feature of using a FIFO shift register in the time slot

assigner (TSA) in McCormack's invention as taught by Moran. The motivation for the

modification is to do so in order to provide a better service to a call.

Regarding claims 18 and 20, McCormack, as applied to claims 12 and 13, teaches the

CPU to perform the transfer of the digital sound sequences (page 3, paragraphs 0059, 0061-0062,

page 4, paragraphs 0069-0071, 0073, 0076, 0078).

However, McCormack does not specifically teach in order to unload the CPU a

microcontroller is used between the working memory and a time slot assigner (TSA), wherein

the microcontroller is initialized by the CPU. Moran teaches in order to unload the CPU a

order to provide fast processing service by a CPU.

microcontroller is used between the working memory and a time slot assigner (TSA), wherein the microcontroller is initialized by the CPU (fig.1; col.5, lines 18-30). Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify McCormack to incorporate the feature of a time slot assigner (TSA) used between the working memory and the switching to assign the digital sound sequences to programmed timeslots in McCormack's invention as taught by Moran. The motivation for the modification is to do so in

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Regarding claim 19, McCormack in view of Moran, as applied to claim 18, does not specifically teach that the microcontroller is a Direct Memory Access (DMA) controller. Examiner notes that the microcontroller as a Direct Memory Access (DMA) controller is well known in the art. Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify McCormack in view of Moran to incorporate the feature of the microcontroller as a Direct Memory Access (DMA) controller in McCormack's invention in view of Moran's invention in order to provide quick data retrieval control from a memory.

Regarding claim 21, McCormack, as applied to claim 21, teaches that the CPU requests the microcontroller to set the start address of the digital sound sequences in the working memory in order to play back the digital sound sequences (page 3, paragraphs 0059, 0061-0062, page 4, paragraphs 0069-0071, 0073, 0076, 0078).

However, McCormack does not specifically teach that the CPU requests the microcontroller to set the start address of the digital sound sequences in the working memory and

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to set the destination address in the FIFO shift register of the time slot assigner (TSA). Moran teaches that the CPU requests the microcontroller to set the start address of the digital sound sequences in the working memory and to set the destination address in the FIFO shift register of the time slot assigner (TSA) (fig.1; col.5, lines 31-68). Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify McCormack to incorporate the feature of the CPU requesting the microcontroller to set the start address of the digital sound sequences in the working memory and to set the destination address in the FIFO shift register of the time slot assigner (TSA) in McCormack's invention as taught by Moran. The motivation for the modification is to do so in order to properly play back sound/audio message to a user.

Claims 22 and 23 are rejected for the same reasons as discussed above with respect to claim 21. Furthermore, McCormack, as applied to claims 18 and 21, teaches the CPU requests to set the destination address in the working memory for recording sound sequences (page 3, paragraphs 0059, 0061-0062, page 4, paragraphs 0069-0071, 0073, 0076, 0078).

Regarding claim 25, McCormack, as applied to claim 12, does not specifically teach that at a certain filling level of the FIFO shift register, the time slot assigner (TSA) requests the CPU by an interrupt command to start or to stop a new data transfer. Moran teaches that at a certain filling level of the FIFO shift register, the time slot assigner (TSA) requests the CPU by an interrupt command to start or to stop a new data transfer (fig.1; col.5, lines 31-68). Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to

modify McCormack to incorporate the feature of the time slot assigner (TSA) requesting the

CPU by an interrupt command to start or to stop a new data transfer at a certain filling level of

the FIFO shift register in McCormack's invention as taught by Moran. The motivation for the

modification is to do so in order to stop recording data in memory when the memory is full.

Regarding claim 26, McCormack, as applied to claim 12, does not specifically teach that

in order to unload the CPU a CPU with integrated Peripheral Exchange Control (PECC) transfer

feature is used between the working memory and a time slot assigner (TSA). Moran teaches that

in order to unload the CPU a CPU with integrated Peripheral Exchange Control (PECC) transfer

feature is used between the working memory and a time slot assigner (TSA) (fig.1; col.5, line 18-

col.6, line 22). Thus, it would have been obvious to one of ordinary skill in the art at the time the

invention was made to modify McCormack to incorporate the feature of using a CPU with

integrated Peripheral Exchange Control (PECC) transfer feature between the working memory

and a time slot assigner (TSA) in order to unload the CPU in McCormack's invention as taught

by Moran. The motivation for the modification is to do so in order to provide fast data processing

service by a CPU.

Conclusion

9. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to MD S. ELAHEE whose telephone number is (571)272-7536.

The examiner can normally be reached on Mon to Fri from 9:00am to 5:30pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Fan Tsang can be reached on (571) 272-7547. The fax phone number for the

organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/MD S ELAHEE/ MD SHAFIUL ALAM ELAHEE Primary Examiner Art Unit 2614 April 28, 2009